

Job \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Contractor \_\_\_\_\_  
 Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
 Model \_\_\_\_\_ Input \_\_\_\_\_ Unit Tag \_\_\_\_\_

# Storage Tank Submittal

## Factory Tested

### 5 Year Limited Warranty

### Vertical or Horizontal Installation (220 gallons & larger)

### Constructed in accordance with ASME Code (above 119 gallons)

### All insulated tanks meet or exceed ASHRAE 90.1

### Glass Lined or Cement Lined Tanks available

### Glass lined models have replaceable anode rods to maximize tank life

### Optional CWIS™ Technology to maximize condensing water heater efficiency



**Storage  
Tanks**

**Hamilton Engineering's exclusive, unique tank designs deliver up to 25% more stored hot water than other storage tanks. This is accomplished by utilizing a baffle inside the tank that deflects blended water to the bottom of the tank. The hottest water rises to the top of the tank, and the cooler blended water remains near the bottom, where it is drawn out and circulated through the water heater.**

**If the CWIS™ option is added, this design can deliver up to 50% greater undiluted hot water than conventional tanks when equipped with Hamilton water heaters.**

## Tank Lining

- Glass Lined
- Cement

## Tank Insulation

- Field Insulation (MicroFoil) Kit
  - Consists of patented pre-taped insulating blanket and roll of fiber reinforced final sealing tape. R-Value of 4; however, a thermal break between the base ring and the floor must be field-provided and installed.
- Factory insulated & jacketed with 2" polyurethane foam and metal jacket, ASHRAE 90.1, R-Value of 13.6
  - 80–200 gallons only (models above 119 gallons are ASME stamped, optional on 119 gallon models).
  - 220 gallons and above (ASME stamped)
- Factory insulated with 2" polyurethane foam and acrylic topcoat, R-Value of 13.8
  - 220 gallon and above (ASME stamped)
- Field insulated by others (not available for Stainless)
  - 220 gallon and above (ASME stamped)

## Options

- CWIS™ Assembly in tank
  - Allows up to 100% of the cold water makeup flow to be routed through the EVO condensing water heater, ensuring maximum water heater efficiency and less than 1 PSI pressure drop.
- T & P Relief Valve
- Thermometer

## Working Pressure

- 125 PSI (Standard)
- 150 PSI (Optional) standard on 80, 120 and 200 gallon
- \_\_\_ PSI (Optional)

## Options for 220 gallons and above

- Tank Saddles
  - 30"    48"    36"    54"    42"    60"
- Manways
  - 12 x 16" – 42" and above standard

## Openings (150 lb, steel flanged)

- 4"    6"    8"    10"

## OPTIONAL MICRO-FOIL STORAGE TANK INSULATION

### Product Specifications:

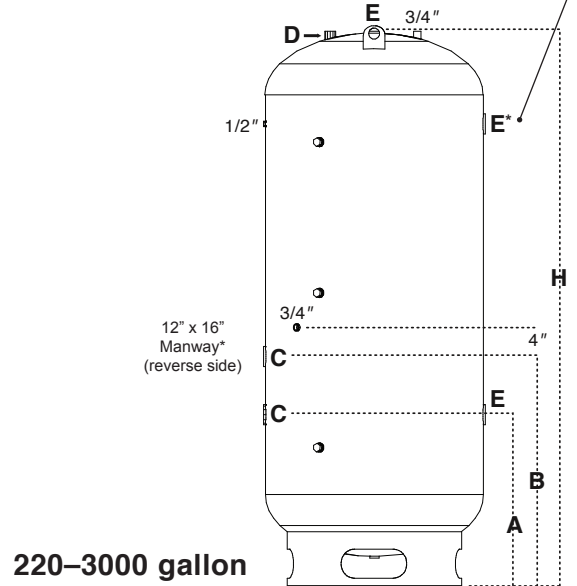
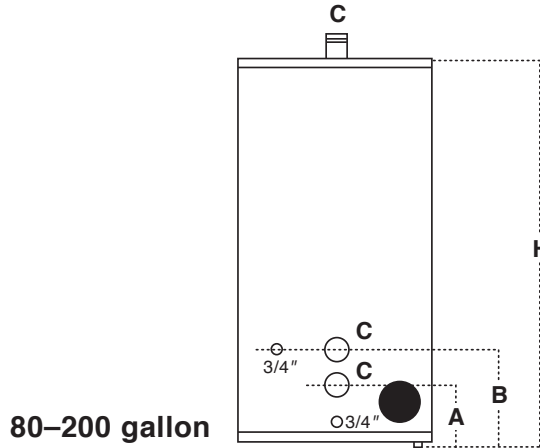
Core – 1/4" thick MicroFoam polypropylene  
 Face – Reinforced, high purity aluminum foil  
 Weight for this product is 0.86 ounces per square foot

Surface Emissivity	0.03
Flame Spread Index – ASTM 84	20
Smoke Development – ASTM 84	15
Fire Rating – NFPA Spec 101	Class A/Class 1
Puncture Resistance – psi, ASTM D 3420	90
Tear – lbs., ASTM D 1922	1.9–2.8
Water Vapor Transmission – grains/hr sq. ft., ASTM E 96	0.005
Water Absorption – lbs/sq ft, FTMS 101B, Method 4035	0.0003
Fungus Resistance/Mold Growth – Mil E 8261A	None
Usable Temperature – °F	-150° to 200°
R Value Heat Flow Resistance, ASTM C236 Hot Box Test	4



# Standard Storage Tank Technical Information

\*Please note that the port labeled "E"  
does not exist on insulated and jacketed tanks.  
This port only



Model	Gallons	Diameter		Height		A		B		C		D		E		Shipping Weight	
		Bare	I/J	Bare	I/J	Bare	I/J	Bare	I/J	Bare	I/J	Bare	I/J	Bare	I/J	Bare	I/J
HET 80	80	N/A	25.25"	N/A	63.0"	N/A	9.25"	N/A	14.25"	N/A	2"	N/A	N/A	N/A	N/A	N/A	240
HET 120	119	N/A	28.0"	N/A	62.5"	N/A	10.0"	N/A		N/A		N/A		N/A		N/A	352
HET 120 ASME	119	N/A	28.00	N/A	62.50	N/A	10.00	N/A	15.00	N/A	2.50	N/A	3/4" & 1-1/4"	N/A	2.00	N/A	365
HET 200 ASME	200	N/A	32.00	N/A	77.25	N/A	11.00	N/A	17.00	N/A	2.50	N/A	3/4 & 1-1/4"	N/A	2.00	N/A	634
HET 220 ASME	220	30.00	N/A	76.00	N/A	23.25	N/A	31.25	N/A	2.50	N/A	3/4 & 1-1/4"	N/A	2.00	N/A	548	N/A
HET 257 ASME	257	30.00	34.00	87.00	91.00	23.25	25.63	31.25	33.63	2.50	3.00	3/4" & 1-1/4"		2.00	2.50	628	904
HET 275 ASME	318	36.00	40.00	76.00	80.00	23.25	25.63	31.25	33.63	2.50	3.00	3/4" & 1-1/4"		2.00	2.50	673	987
HET 350 ASME	370	36.00	40.00	87.00	91.00	23.25	25.63	31.25	33.63	2.50	3.00	3/4" & 1-1/4"		2.00	2.50	770	C/F
HET 432 ASME	432	42.00	46.00	76.00	80.00	23.25	25.63	31.25	33.63	2.50	3.00	3/4" & 1-1/4"		2.00	2.50	795	1188
HET 500 ASME	504	42.00	46.00	88.00	92.00	23.25	25.63	31.25	33.63	2.50	3.00	3/4" & 1-1/4"		2.00	2.50	908	1329
HET 650 ASME	658	48.00	52.00	88.00	92.00	23.25	25.63	31.25	33.63	3.00	3.00	3/4" & 1-1/4"		2.50	2.50	1346	1817
HET 750 ASME	752	48.00	52.00	100.00	104.00	23.25	25.63	31.25	33.63	3.00	3.00	3/4" & 1-1/4"		2.50	2.50	1507	2030
HET 1000 ASME	940	48.00	52.00	124.00	128.00	23.25	25.63	31.25	33.63	3.00	3.00	3/4" & 1-1/4"		2.50	2.50	1828	2710
HET 1250 ASME	1189	54.0"	58.0"	124"	126.5"	25.0"	N/A	35.0"	N/A	4" FLG	N/A	1.5"	N/A	3"	N/A	2083	4660**
HET 1500 ASME	1469	60.0"	64.0"	124"	126.5"	25.0"	N/A	35.0"	N/A	4" FLG	N/A	1.5"	N/A	3"	N/A	2784	6200**
HET 1750 ASME	1763	60.0"	64.0"	148"	150.5"	31.0"	N/A	41.0"	N/A	4" FLG	N/A	1.5"	N/A	C/F	N/A	3267	C/F
HET 2000 ASME	2056	60.0"	64.0"	172"	174.5"	31.0"	N/A	41.0"	N/A	4" FLG	N/A	1.5"	N/A	C/F	N/A	3749	7400**
HET 2500 ASME	2538	72.0"	76.0"	148"	150.5"	35.0"	N/A	45.0"	N/A	4" FLG	N/A	1.5"	N/A	C/F	N/A	3995	9000**
HET 3000 ASME	2961	72.0"	76.0"	172"	174.5"	35.0"	N/A	45.0"	N/A	4" FLG	N/A	1.5"	N/A	C/F	N/A	4575	C/F

**Note: 125 PSI standard on all tanks, with the exception of HET 80, 120, and 200, which are 150 PSI standard. Custom sizes & linings are also available. Consult factory for details.**

\* Manway comes standard on 42" diameter and larger tanks, and is optional on 30" and 36".

\*\* Vertical square I/J tank  
Dimensions are approximate. Please consult factory before installation.

## STORAGE TANK COMPONENT DESCRIPTION

